Part V

Appendices

Staff

MCSD consists of full time permanent staff located at NIST laboratories in Gaithersburg, MD and Boulder, CO. This is supplemented with a variety of faculty appointments, guest researchers, postdoctoral appointments, and student appointments. The following list reflects the status at the end of FY 2005.

Legend: F = Faculty Appointee, GR = Guest Researcher, PD = Postdoctoral Appointee, S = Student, PT= Part time

Division Staff

Ronald Boisvert, *Chief*Robin Bickel, *Secretary*Jeffrey Fong, PT
Roldan Pozo
Chris Schanzle

Mathematical Modeling Group

Geoffrey McFadden, Leader Donald Porter

Bradley Alpert (Boulder)

Timothy Burns Mirit Aladjem, GR
Alfred Carasso Daniel Anderson, GR

Andrew Dienstfrey (Boulder)

Michael Donahue

Fern Hunt

Katharine Gurski, GR

Raghu Kacker

Anthony Kearsley

Peter Ketcham

Eric Baer, S

Richard Braun, F

Katharine Gurski, GR

Seung-Ill Haan, GR

Sohyoung Kim, GR

Dianne O'Leary, F

Stephen Langer Florian Potra, F Agnes O'Gallagher (Boulder) Richard Yeh, GR

Mathematical Software Group

Bonita Saunders

Daniel Lozier, Leader

Marjorie McClain

Bruce Fabijonas, F

Leonard Maximon, GR

Bruce Miller

Frank Olver, GR

William Mitchell

G.W. Stewart, F

Bert Rust Abdou Youssef, F

Optimization and Computational Geometry Group

Ronald Boisvert, Acting Leader Emanuel Knill (Boulder)

Isabel Beichl
Javier Bernal
Theodore Einstein, GR

Javier Bernal Theodore Einstein, GR
David Gilsinn Saul Gass, F

Scott Glancy, PD James Lawrence, F Sita Ramamurti, GR David Song, GR Francis Sullivan, GR Christoph Witzgall, GR

Scientific Applications and Visualization Group

Judith Terrill, Leader John Kelso

Yolanda Parker, Office Manager

Robert Bohn

Steven Satterfield

William George

James Sims

Terence Griffin

John Hagedorn Julien Lancien, GR Howard Hung Alexandre Thibau, S

Staff Leaving the Division During FY 2005

Joyce Conlon

David Cotrell, PD Ioan Sucan, GR Anocha Yimsiriwattana, GR

Brian Cordes, S Justin Haaheim, S Jarrett Inn, S Javier Sanchez, S Gaurav Thakur, S Benjamin Zoeller, S

Acronyms

ACM Association for Computing Machinery

AIP American Institute of Physics AMS American Mathematical Society ANSI American National Standards Institute

APS American Physical Society

ASME American Society of Mechanical Engineers
ATP NIST Advanced Technology Program

BFRL NIST Building and Fire Research Laboratory

BLAS Basic Linear Algebra Subprograms

CARB NIST Center for Advanced Research in Biotechnology

CCS IDA Center for Computing Sciences
CEM computational electromagnetics
CFM confocal fluorescence microscopy

CIO Chief Information Officer

CSTL NIST Chemical Science and Technology Laboratory
CWI Centrum voor Wiskunde en Informatica (Amsterdam)

DARPA Defense Advanced Research Projects Agency

DIVERSE Device Independent Virtual Environments — Reconfigurable, Scalable,

Extensible (visualization software)

DLMF Digital Library of Mathematical Functions (MCSD project)

DOD Department of Defense
DOE Department of Energy
DPD dissipative particle dynamics

DPD dissipative particle dynamics DSO distributed shared object

EEEL NIST Electronics and Electrical Engineering Laboratory

FY fiscal year

GAMS Guide to Available Mathematical Software

GMR giant magneto-resistance IDA Institute for Defense Analysis

ITL NIST Information Technology Laboratory

IFIP International Federation for Information Processing

IMA Institute for Mathematics and Its Applications (Univ. of Minnesota)

JAMA Java Matrix package

LADAR Laser Distance and Ranging

MCSD ITL Mathematical and Computational Sciences Division

MEL NIST Manufacturing Engineering Laboratory

MIM Molecular interaction map
MPI Message Passing Interface
MRAM magnetic random access memory

MSEL NIST Materials Science and Engineering Laboratory
NBS National Bureau of Standards (former name of NIST)
NIST National Institute of Standards and Technology

NOAA National Oceanographic and Atmospheric Administration

NSF National Science Foundation

OCM optical coherence tomography

OOF Object-Oriented Finite Elements (software package)

OOMMF Object-Oriented Micromagnetic Modeling Framework (software package)

PDE partial differential equation

PHAML Parallel Hierarchical Adaptive Multi Level (software)

PL NIST Physics Laboratory

QDPD quarternion-based dissipative particle dynamics

RAM random access memory

RAVE Reconfigurable Automatic Virtual Environment

SAVG MCSD Scientific Applications and Visualization Group

SED NIST/ITL Statistical Engineering Division

SEM scanning electron microscope

SIAM Society for Industrial and Applied Mathematics SIGGRAPH ACM Special Interest Group on Graphics

SPIE The International Society for Optical Engineering

SSS Screen Saver Science

SURF Student Undergraduate Research Fellowship

SVD singular value decomposition TIN triangulated irregular network TNT Template Numerical Toolkit

VCCTL Virtual Cement and Concrete Testing Laboratory